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# 1956 ILLINOIS CORN TESTS

# Variety performance



Location of 1956 test fields

Bulletin 605

UNIVERSITY OF ILLINOIS
AGRICULTURAL EXPERIMENT STATION

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## 1956 ILLINOIS CORN TESTS

By Earl R. Leng and Don E. Finley1

THE LARGEST CORN CROP in Illinois' history was harvested in 1956. Official estimates placed total production at nearly 600 million bushels, more than 30 million above the previous production record set in 1948. The estimated average yield for the state was 68 bushels per acre, 12 bushels above the 1955 average and 7 bushels higher than the 1948 record.<sup>2</sup>

## PLAN OF THE TESTS

Number of hybrids and their sources. Three hundred fifty-two hybrids were grown on seven major test fields. Fifty-five companies and individuals and the Illinois Agricultural Experiment Station furnished seed for the tests. Both the number of hybrids grown and the number of companies and individuals furnishing seed were substantially greater than in the past few years of the tests.

One hundred twenty-five hybrids were grown at Galesburg and Urbana. One hundred entries were tested at DeKalb and Ashkum, and ninety hybrids were included in the test at Greenfield. Eighty-one hybrids were tested at Brownstown, and seventy-two at Wolf Lake. The test fields at Ashkum and Greenfield were new locations, intended to represent major corn-growing areas of the state which had not been adequately covered by the previous testing program. General information on the seven tests is summarized in Table 1.

A representative of the Illinois Station or of the Illinois Crop Improvement Association collected seed for planting the test fields directly from the warehouses of the producers entering the respective hybrids. Seed of certain Illinois and other open-pedigreed hybrids was furnished by the Illinois Station.

Selection of entries. Each year producers of hybrid seed corn are given an opportunity to nominate hybrids for testing on the various fields. A fee is charged for testing hybrids nominated in this manner. In the past two years, all hybrids nominated for testing have been accepted and included in the performance test plots.

<sup>&</sup>lt;sup>1</sup> Earl R. Leng, Associate Professor of Agronomy, and Don E. Finley, Crops Testing Technician, Department of Agronomy.

<sup>&</sup>lt;sup>2</sup> Estimates of yield for the state were furnished by the Illinois Cooperative Crop Reporting Service, Illinois State Department of Agriculture cooperating with the U.S. Department of Agriculture.

Certain hybrids were also included in the tests to meet the field-performance requirements for certification. Some Station-produced open-pedigreed hybrids were included at each location, and several promising experimental hybrids were grown at some locations. The performance of additional experimental hybrids in 1956 and preceding years is reported in Illinois Bulletin 606.

Table 1. — GENERAL INFORMATION: Illinois Hybrid Corn Tests, 1956

Field, county, location and number of entries	Date planted	Date harvested	Average acre yield	Moisture in grain	Erect plants	Stand
DeKalb: DeKalb, N, 100 Galesburg: Knox, WNC, 125 Ashkum: Iroquois, ENC, 100 Urbana: Champaign, EC, 125 Greenfield: Macoupin, WSC, 90 Brownstown: Fayette, S, 81 Wolf Lake: Union, Ex. S, 72	May 11 May 19 May 9 May 12 June 4	Oct. 23 Oct. 20 Oct. 16 Oct. 17 Oct. 11 Nov. 1 Oct. 23	bu. 117.3 124.0 123.8 127.8 121.8 95.3 104.5	perct. 18.7 14.9 17.8 15.6 13.8 16.7 14.3	perct. 97 93 97 95 99 98 99	perct. 87 87 91 90 92 89 83

COOPERATORS: RALPH ANDERSON and RALPH HAWTHORNE, Knox county; D. L. PETERSON, Iroquois county; CHARLES ROSS, Macoupin county; EARL SCHWARM and H. O. LEWIS, Fayette county; SHAWNEE HIGH SCHOOL, Union county. Tests in DeKalb and Champaign counties were located on University of Illinois farms managed by R. E. Bell and C. H. FARNHAM. P. E. JOHNSON, Assistant Professor of Soil Fertility, supervised field operations on the test in Fayette county.

Soil characteristics of fields. The test fields are usually medium to high in productivity, and each represents a soil type common to the region where it is located. Each field is selected for uniformity in soil type, productivity, and drainage. Approximate locations of test fields are shown on the map on the cover. Soil characteristics and management are described in Table 2.

Field-plot design. The experimental designs used at DeKalb and Ashkum were  $10 \times 10$  lattices, with 3 replications each. A  $9 \times 9$  lattice-square design with 5 replications was used at Brownstown. The designs used at Galesburg and Urbana were  $5 \times 5 \times 5$  cubic lattices, with 3 replications each. A  $9 \times 10$  rectangular lattice with 3 replications was used at Greenfield, while the design at Wolf Lake was an  $8 \times 9$  rectangular lattice with 3 replications. Because of time limitations, the data presented in this bulletin for all tests except Brownstown were analyzed by the procedure normally used for randomized block tests, rather than by the full procedure for rectangular or cubic lattices.

Method of planting. All test fields were planted by hand on land prepared in the normal way for corn. Individual plots consisted of 2 rows each 5 hills long. Four kernels were planted per hill at DeKalb,

Ashkum, Galesburg, and Urbana; 3 kernels were planted per hill at Greenfield, Brownstown, and Wolf Lake. The plots were not thinned.

#### **GROWING CONDITIONS**

The 1956 growing season in Illinois was exceptionally favorable for corn. Moisture shortages were evident in the central and western sections during May and June, but timely rains and cool temperatures during July and early August provided favorable conditions which led to record yields. An unusually early killing frost extended over much of the northern half of the state on September 19 and 20, but nearly all corn was safely matured by that time, and no loss in yield resulted. The cool period in mid-September was followed by several weeks of exceptionally dry and warm weather, which resulted in rapid drying of the corn crop, and in unusually low moisture content of the grain at harvest. Harvest throughout the state was completed several weeks ahead of the normal schedule.

Seedbeds for the performance tests were generally in excellent condition, except at Galesburg and Brownstown, and planting was timely, except at Brownstown. The seedbed at Galesburg was cloddy and dry at planting time, but ample rains fell soon after planting, and stands were generally good. Planting at Brownstown was again delayed until the first week in June because of excessive soil moisture. Moisture supplies and general growing conditions in July and August were exceptionally favorable at all locations, although a slight deficiency of moisture was evident late in the growing season at Brownstown and Wolf Lake.

The low temperatures on September 19 and 20 killed the majority of the plants in the DeKalb and Ashkum test fields, and also caused obvious frosting at Galesburg. No apparent reduction in yield resulted from this frost, since maturity was well advanced in all tests. Subsequently drying conditions were exceptionally favorable, and moisture content of the grain at harvest was unusually low at all test locations.

Damage by insect pests and plant diseases was light to moderate on the test plots in 1956. Moderate infestations by the European corn borer were evident in the four northernmost test fields but resulted in very little stalk breakage or ear droppage. The leaf blight phase of Stewart's disease was evident at Greenfield and Brownstown, but appeared to cause little if any reduction in yield. Stalk rots were prevalent in most of the test fields, but very little stalk-breaking resulted at any test location.

## Table 2. — TEST FIELDS: Soil Characteristics, Management Practices, and Rainfall in 1956

Soil type	Lime require- ment	Available phosphorus	Available potassium	Previous crops, soil manage- ment, and rainfall <sup>1</sup>
		NORT	THERN: Dek	alb
Flanagan silt loam	tons 0	High	Very high	Alfalfa and ladino 1951; corn 1952; oats 1953; red clover 1954; corn 1955; 400 pounds 0-10-30 plowed down; 250 pounds ammonium nitrate side-dressed; 3 tons limestone 1954. Rainfall (inches): May 4.50; June 2.50; July 5.07; August 5.20.
	W	EST NORT	H-CENTRAL	: Galesburg
Sable silty clay loam	2	High	Very high	Alfalfa 1951; corn 1952; corn 1953; oats 1954; alfalfa 1955; 800 pounds rock phosphate plowed down; 2 tons limestone 1954; 2 tons manure plowed down. Rainfall (inches): May 4.42; June 4.28; July 9.31; August 5.89.
	E	AST NORT	TH-CENTRAL	: Ashkum
Peila clay loam	0	High	High	Alfalfa and brome 1951; corn 1952; corn 1953; oats 1954; alfalfa and brome 1955; 400 pounds 10-10-10 in 1954; 3 tons manure plowed down fall 1955; 100 pounds ammonium nitrate side-dressed. Rainfall (inches): May 6.55; June 1.33; July 3.63; August 3.27.
		EAST-C	ENTRAL: U	rbana
Brenton silt loam	2	Low	High	Oats 1951; legumes (none removed) 1952; corn 1953; oats 1954; legumes (none removed) 1955; 2,300 pounds rock phosphate plowed down; 400 pounds 0-0-60 plowed down; 3 tons limestone. Rainfall (inches): May 2.92; June 1.89; July 5.82; August 3.79.
	W	EST SOUT	H-CENTRAL:	Greenfield
Herrick silt loam	1-2	Medium	Medium	Corn 1951; soybeans 1952; oats 1953; alfalfa pasture 1954; alfalfa pasture 1955; 2½ tons limestone 1949; 200 pounds 4-16-16 plowed down before planting. Rainfall (inches): May 4.21; June 3.64; July 3.65; August 6.94.
		SOUTH	ERN: Brown	stown
Cisne silt loam	2	High	High	Oats and clover 1951; corn 1952; oats and clover 1953; corn 1954; oats and clover 1955; 200 pounds ammonium nitrate sidedressed at second cultivation; limestone and rock phosphate added in the past. Rainfall (inches): May 5.21; June 3.11; July 4.00; August 3.02.
	E	XTREME S	SOUTHERN:	Wolf Lake
Probably Riley fine sandy loam	0	High	High	Corn 1951; corn 1952; soybeans 1953; wheat and clover 1954; corn 1955; 150 pounds 4-16-16 plowed down; 120 pounds anhydrous ammonia in the row at planting. Rainfall (inches): May 3.46; June 3.69; July 4.09; August 1.53.

 $<sup>^1\,\</sup>rm Official$  rainfall data furnished by Illinois State Climatologist, data obtained from U.S. Weather Bureau publication, "Climatological Data for Illinois."

### MEASURING PERFORMANCE

The entries of the 1956 test are listed in the tables in alphabetical order. It is hoped this arrangement will reduce the emphasis often placed on yield alone.

Yield of grain. To determine shelling percentage, all the ears from one replicate of each entry were shelled immediately after harvest. From the well-mixed shelled corn one sample was taken to determine the percentage of moisture at harvest.<sup>1</sup>

The total acre-yield was calculated as shelled corn containing 15.5 percent moisture, the upper limit allowable in No. 2 corn. The total yield thus obtained for the Brownstown test was adjusted according to the procedure outlined by Cochran for randomized lattice-square designs.<sup>2</sup>

Erect plants. The percentage of erect plants in each plot of each entry on each field was estimated at the time of harvest. Lodging may have been due to rootworm damage, weak or rotted roots, corn-borer damage, stalk rots, or weak stalks. Stalks broken above the ear were not considered lodged.

Dropped ears. At harvest time, the number of dropped ears in each plot was recorded in the Galesburg and Urbana tests. Ear-dropping may have resulted from European corn-borer damage or from other causes. There were very few dropped ears in the other test fields, and so data on this characteristic were not recorded. The percentage of dropped ears was calculated by dividing the number of dropped ears in a given plot by the number of plants in that plot.

Stand. A count was made in late summer, at all fields, of the number of missing hills and number of missing plants in each plot of each variety. It is assumed that missing hills were due to some factor other than the hybrid itself. Yields were corrected for missing hills by the following adjustment:

Ear weight in field 
$$\times \left(1 + \frac{\text{missing hills}}{\text{hills present}} \times .6\right) = \text{adjusted ear weight.}$$

The percent stand is based on the total number of missing plants in relation to the number that would have been present if all the kernels had produced plants. Stand differences may be due to poor germina-

<sup>&</sup>lt;sup>1</sup> All moisture determinations were made with a Radson moisture tester.

<sup>&</sup>lt;sup>2</sup> Cochran, W. G. "Some Additional Lattice-Square Designs." Iowa Agr. Exp. Sta. Res. Bul. 318. May. 1943.

tion, to disease, insect, or rodent destruction, or in some cases to destruction in cultivation.

# Readers are urged to keep in mind these two things when comparing the performance of hybrids on any one field:

- 1. Small differences in any one year do not necessarily indicate that one hybrid is inherently superior to another. In comparing the performance of two hybrids, figures may be obtained representing the range which differences between two entries must exceed before they can be considered significantly different. The method used in determining this value is called the "Multiple Range test." This method considers the number of entries that fall within the range as well as the variability of the test. It has been used in presenting the data from the tests discussed in this bulletin (Tables 3 to 9, inclusive). In each of these tables, the performance of the highest-yielding hybrid and of all entries not significantly different from it in yield are shown in boldface type. For each characteristic other than yield, the "difference necessary for significance" or "least significant difference" has been computed in the conventional manner.
- 2. Tests covering three years (see upper part of yield tables) give more reliable results than those covering only one year. The fact that a hybrid does not appear in the summary is, however, nothing against it—its absence merely means that 1956 was the first year it was tested or that it missed one year of the series.

<sup>&</sup>lt;sup>1</sup> Duncan, D. B. "Multiple Range and Multiple F Tests." *Biometrics* 11, (1), 1-43. 1955.

#### Table 3. - NORTHERN ILLINOIS: DeKalb

(Performance data of highest-yielding hybrid and of all hybrids not significantly lower in yield are shown in boldface type)

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1954-1	1956			
Hulting 238	bu.	perct.	perct.	perct.
	113.0	21.4	91	92
	110.7	21.5	96	88
Pioneer 354	109.5	21.5	89	91
P.A.G. 277	109.2	22.7	94	91
Sieben S-340	109.1	23.2	94	88
Frey 410. PA 9 410. Holmes 2144.	108.8 108.7	21.9 21.1	91 95	90 89
Huebsch 81	108.6	21.6	94	91
Doubet D-45	108.2	22.1	96	87
P.A.G. 234	108.2	22.2	93	89
Producers 326. Producers 510. Pioneer 325. Stewart S-56.	107.9	20.5	94	89
	107.8	22.5	94	92
	107.4	22.4	96	92
	107.2	22.6	93	86
Bear OK-414	106.8	21.4	96	86
Hulting 240	106.6	22.8	95	85
P.A.G. 222a	106.5	21.8	95	90
Crow's 402	106.4	22.0	94	82
Munson M5.	106.3	22.7	90	89
Super-Crost 440.	105.9	22.8	91	83
P.A.G. 253 Nichols NB-75A Sieben S-560 Pioneer 347	105.2	22.1	87	89
	104.9	22.0	94	88
	103.7	22.5	96	84
	103.6	21.4	91	88
Pioneer 347 Sieben S-440B. Crow's 487 Stiegelmeier S-379	103.4	22.0	90	84
	103.3	20.9	95	87
	103.0	20.7	92	91
Huebsch 24.  Munson M77. Ainsworth X-12.	102.8	20.4	94	89
	102.3	22.9	92	86
	102.0	22.8	97	83
Illinois 101 (Huebsch). Crow's 260. Crow's 432. Moews 15.	101.4	22.5	92	89
	100.9	21.9	94	83
	100.1	21.9	97	86
	100.1	20.7	94	89
Sieben S-450	96.8	20.9	96	85
	105.6	21.9	94	88
Difference necessary for significance	11.2	2.1	5.3	8.3
Ainsworth X-12.	108.2	21.0	100	72
Bear OK-414.	112.3	18.0	99	81
Crow's 260.	111.6	18.8	100	74
Crow's 402.	120.4	17.4	96	84
Crow's 432.	108.5	18.6	100	80
Crow's 487.	111.4	17.7	97	80
DeKalb 409.	117.9	16.8	97	89
DeKalb 410.	115.4	15.7	96	89
DeKalb 414.	118.3	18.6	100	87
DeKalb 423	126.5	18.4	99	93
DeKalb 450	119.0	17.8	99	88
DeKalb 450	118.8	18.5	96	91
DeKalb 603	114.9	18.4	100	82
DeKalb 623	104.6	21.2	99	91
DeKalb 627	121.0	17.4	92	85
DeKalb 630 Doubet D-25E Doubet D-45 Frey 410	115.6	20.3	97	88
	117.2	18.8	99	91
	119.2	18.8	99	85
	119.0	19.3	92	78
Funk's G-75A Funk's G-76 Holden H-348.	119.0 122.9 113.5 128.6	19.3 18.8 19.5 17.7	100 94 98	85 85 97
Holmes 11A. Holmes 17A. Holmes 47	116.8 116.9 120.8	17.7 18.0 17.7 20.4	100 99 98	82 85 78
Huebsch 24	119.3	18.0	96	95
Huebsch 44	135.4	18.0	92	98
Huebsch 81	130.5	16.8	96	94

<sup>&</sup>lt;sup>a</sup> Average of P.A.G. 7220 in 1954, and P.A.G. 222 in 1955 and 1956.

## Table 3. - NORTHERN ILLINOIS: DeKalb - concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1956 RESULTS — con	cluded			
	bu.	perct.	perct.	perct.
Hulting J-46	115.5 125.3	19.2 16.5	91 94	97 <b>94</b>
Hulting 238 Hulting 240	126.2	19.0	99	76
Hulting 242	112.7	19.0	99	92
Hulting 481 Hulting 681	112.9 105.3	$\frac{20.4}{17.4}$	98 99	87 86
Illinois 101 (Huebsch). Illinois 1277 (Coldwater). Illinois 1277 (Nichols). Illinois 1280 (Coldwater). Illinois 1902 (Station).	124.4	18.1	95	96
[llinois 1277 (Coldwater)	124.0	16.8	<b>95</b> 97	90
Illinois 1277 (Nichols)	110.9 101.5	19.4 16.7	97 87	87 82
Illinois 1902 (Station)	117.6	18.6	94	83
Moews 14DR	120.4	17.6	97	91
Moews 15	111.0 119.2	16.6 16.8	96 98	98 80
Moews 48	120.5	17.7	99	93
Moews 524A	114.2 114.5	20.6 20.4	98 97	79 95
Moews 5074	107.4	19.0	98	9.3
Moews 5077	123.4	19.6	98	91
Moews 5078	116.0 117.9	20.7 19.0	97 96	95 88
Munson M77	109.7	19.5	98	84
Nichols NB-5C	124.1	16.4	97	97
Nichols NB-43	124.1 115.3	18.4 17.8	94 98	89 85
P.A.G. 222	119.2	16.8	98	92
P.A.G. 225	121.5	17.1	97	85
P.A.G. 234 P.A.G. 244	119.2 126.0	19.0 17.4	97 <b>98</b>	85 89
P.A.G. 253	119.5	19.7	83	88
P.A.G. 277	123.8 109.6	18.5 16.5	96 97	<b>92</b> 88
P.A.G. 290 P.A.G. 8401	109.1	18.3	98	85
P.A.G. 8892	123.5	18.3	96	97
Pioneer 325Pioneer 344	121.5 121.6	19.2 18.0	98 95	91 88
Pioneer 345	123.1	17.2	93	92
Pioneer 346.	124.6	17.5	96 98	94
Pioneer 352	114.8 116.5	18.0 16.1	98 97	86 79
Pioneer 354	118.4	18.3	98	90
Pioneer 371Pioneer 1091	114.8 134.1	16.2 17.8	98 <b>9</b> 8	89 <b>93</b>
Producers 326	123.9	18.1	93	92
Producers 505Producers 510	113.2 120.2	$\frac{19.4}{18.3}$	95 <b>96</b>	92 93
Sieben S-340	116.7	19.8	97	91
Sieben S-440	118.2	18.4	98	88
Sieben S-440ESieben S-450	116.0 99.3	18.8 19.2	88 98	82 85
Sieben S-560. Steckley Genetic Giant 3.	118.2	19.5	99	84 84
	107.5 116.9	17.8 16.5	97 97	84
Steckley Genetic Giant 9. Steckley Genetic Giant 10. Steckley Genetic Giant 10.	108.4	17.4	95	82 72 79
Steckley Genetic Giant 10	116.0	18.2	94	79
SIEWAIT S-OU	112.7 127.1	18.8 19.8	98 <b>97</b>	82 89
stewart S-66B tiegelmeier S-379.	109.9	18.0	96	86
Stiegelmeier S-379 Super-Crost 440	116.4 118.6	18.5 17.8	94 94	93 83
Ciemann T-68	120.1	17.4	100	74
Fiemann T-78	117.3	17.3	99	58
Trisler T-19B Comahawk 43	120.0 120.8	18.5 16.8	99 95	87 82
Готаhawk 62	111.7	17.2	93	79
Готсо 619	123.2 116.8	20.2 20.7	99 97	90 90
Jnited-Hagie UH-41A	115.9	19.3	98	94
Jnited-Hagie UH-52B.	115.4	16.6	96	85
Wyckoff's W-20	120.9	21.0	98	93
Wyckoff's W-25A	103.5 105.3	20.5 19.4	98 100	82 73
		18.7	97	87
Average of all entries	117.3	10.7	91	01

#### Table 4. — WEST NORTH-CENTRAL ILLINOIS: Galesburg

(Performance data of highest-yielding hybrid and of all hybrids not significantly lower in yield are shown in boldface type)

not significantly lower in yield	are snow	VII III BOIGIACE	type)		
Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped ears
SUMMARY	: 1954	-1956			
Holmes 39.	bu. 121.2	perct. 21.4	perci. 91	perci. 86	percl.
Pioneer 313B. Schwenk S-34 Moews 520.	121.2 120.3 117.1	21.9 20.2 21.6	83 96 93	86 92 86	
Tiemann T-78 Schwenk S-24 Producers 13-1	116.6 116.4 116.3	19.5 20.3 21.1	89 92 92	92 92 90	
Funk's G-95A Pioneer 316a Funk's G-95.	116.0 115.9 115.8	20.7 20.8 21.0	94 94 95	86 91 90	• • • •
Moews 524 Null N-83 P.A.G. 403	115.6 115.4 115.3	19.5 20.9 21.8	97 89 95	92 89 92	
Illinois 21 (Dittmer) Pioneer 329b	114.5	20.7 18.5	93 96	92 90	:::
Illinois 1831 (Station). Producers 940. Sieben S-320.	112.8 110.9 110.2	21.0 20.1 18.6	90 94 92	91 85 90	
P.A.G. 383 P.A.G. 347 Illinois 1570°.	109.6 109.0 108.6	20.4 18.9 19.8	93 94 91	89 88 91	
Sieben S-340. Moews 523.	108.6 108.2 107.6	18.5 20.8 20.6	90 93 92	87 85 89	
Huey H-23. Doubet D-25. Sieben S-360. Ainsworth X-21. Crow's 407.	106.9 106.6 106.3 105.7	20.7 20.7 18.7 20.3	94 95 91 94	87 89 89 87	
P.A.G. 303. Bear OK-24.	105.3 104.7	19.4 22.1	95 93	90 90	
Null N-68. De Kalb 837 Moews 550. Crow's 608.	104.5 104.4 103.4 101.0	20.1 21.5 19.2 20.3	91 95 95 93	83 87 83 83	
Stewart S-60.  Average of all entries	100.0 111.0	21.3 20.4	95 93	90 89	
Difference necessary for significance	14.6	1.8	6.4	5.6	
1956 RE	SULTS	3			
AES 702 (Station). Ainsworth X-13-3. Ainsworth X-21 Appl A-130. Appl A-159. Appl A-259.	120.6 122.7 123.2 112.4 89.6 116.4	14.6 14.6 13.5 14.7 17.5 17.3	90 88 92 93 92 93	90 88 85 85 85 88	2 0 0 2 0 1
Bear OK-24. Bear OK-96.	121.3 133.7	16.8 17.4	90 88	82 87	0
Crow's Deep Root. Crow's 407. Crow's 432. Crow's 608.	117.0 110.2 108.9 115.5	14.5 15.3 13.7 14.3	94 93 94 89	80 83 80 79	0 0 0

Average of Pioneer 9212 in 1954, and Pioneer 316 in 1955 and 1956.
 Average of Pioneer X0101 in 1954, and Pioneer 329 in 1955 and 1956.
 Average of Illinois 1570 (Graham) 1954, and Illinois 1570 (Dittmer) 1955 and 1956.

# Table 4. — WEST NORTH-CENTRAL ILLINOIS: Galesburg — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped ears
1956 RESULT	S — co	ntinued			
DeKalb A-8 DeKalb 623 DeKalb 632 DeKalb 632 DeKalb 803 DeKalb 805 DeKalb 807 DeKalb 807 DeKalb 811 DeKalb 820 DeKalb 820 DeKalb 837 Doubet D-25 Doubet D-41	bu. 125.9 112.8 109.2 117.9 105.5 128.6 129.0 128.6 129.5 113.5 133.5	perct. 16. 1 14. 5 14. 7 15. 5 17. 0 14. 4 15. 2 15. 1 15. 5 16. 3 14. 6 14. 1	perct. 97 94 99 98 88 71 98 96 92 96 95 100	percl.  88 83 86 89 76 85 90 79 86 83 86 90	perct. 2 0 2 0 0 0 0 0 0 1 0
Funk's G-75A Funk's G-76 Funk's G-95. Funk's G-95A	124.6 120.6 127.3 125.6	. 14.7 15.2 15.2 15.5	98 93 97 95	90 87 90 84	0 1 1 0
Holden H-56 Holden H-433 Holden H-532 Holmes 39 Holmes 59 Huey H-23 Huey H-42 Hulting 380B Hulting 481 Hulting 680	139.5 119.8 116.9 119.1 125.4 128.8 128.4 125.0 136.2 132.0 123.4	14.8 15.0 17.6 15.0 14.5 14.3 14.0 13.3 14.7	99 95 98 92 94 91 98 94 92 93 87	90 86 87 82 90 93 90 88 84 88	0 0 0 0 0 1 0 1 2 0
Illinois 21 (Dittmer) Illinois 274-1 (Station) Illinois 972A-1 (Station) Illinois 1091A (Station) Illinois 1246 (Station) Illinois 1421 (Station) Illinois 1570 (Dittmer) Illinois 1677 (Station) Illinois 1631 (Station) Illinois 1931 (Station) Illinois 1902 (Station) Illinois 1912 (Station) Illinois 1936 (Station) Illinois 1936 (Station)	132.3 132.4 129.9 120.0 128.8 129.2 122.9 132.1 120.8 117.3 128.7 109.6	14.6 14.3 14.4 13.9 13.3 15.2 15.0 15.0 15.2 14.6 14.3 15.2	92 88 92 95 96 90 91 90 81 90 87	87 88 92 85 86 87 92 92 87 89 86	0 0 0 1 0 2 3 1 2 0 2 2
Keystone 48	134.8	16.2	92	95	3
Moews 520.  Moews 523.  Moews 524.  Moews 524A.  Moews 550.  Moews 5074.  Monier 12  Mountjoy M-64  Munson M15  Munson M19.	142.1 131.5 137.8 126.2 116.8 124.2 121.2 129.3 135.7 134.9	15.6 15.0 14.1 15.6 13.6 14.7 15.1 13.6 13.5	95 99 94 95 90 80 83 97 96	86 84 90 89 79 84 88 88 90 86	0 1 0 2 0 2 1 0 0
Null N-68. Null N-83. Null N-100.	119.0 1 <b>30</b> .2 108.9	14.6 13.8 17.0	87 80 94	80 92 86	0 3 0
Ohio C-92 (Station)	128.1	13.4	93	92	0
P.A.G. 290. P.A.G. 303. P.A.G. 347	104.3 123.6 123.3	13.0 14.4 13.5	88 92 99	88 91 88	0 0 2

# Table 4. — WEST NORTH-CENTRAL ILLINOIS: Galesburg — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped ears
1956 RESULTS	S — cor	ncluded			
P.A.G. 351 P.A.G. 377	bu. 124.5 122.4	perct. 14.1 13.8	perct. 97 90	perct. 88 88	perct.
P.A.G. 381 P.A.G. 383 P.A.G. 401 P.A.G. 403	132.1 116.4 123.7 138.6	13.7 15.0 14.3 14.4	88 89 92 94	92 84 82 91	0 0 1 0
P.A.G. 444 Pioneer 301B. Pioneer 306B.	117.8 129.6 123.8	18.8 14.5 15.3 18.5	83 96 91 96	85 94 91 89	1 1 0
Pioneer 312A. Pioneer 313B. Pioneer 316. Pioneer 317A.	123.7 127.2 135.6 124.9	16.1 15.3 15.3	94 93 97	86 92 84	0 0 0 3
Pioneer 329 Pioneer 345 Pioneer 6727 Producers 13-1 Producers 510	119.8 123.4 142.3 138.9 123.3	12.7 13.0 16.1 13.9 13.8	95 92 95 87 95	89 92 90 92 88	1 0 2 0
Producers 921 Producers 940 Producers 946	136.5 121.4 112.4	14.7 14.5 16.1	92 95 95	93 79 84	0 2 0
Robe 11. Robe 30.	128.3 131.5	15.5 16.1	97 95	92 86	1 2
Schwenk S-24. Schwenk S-25B Schwenk S-34. Sieben S-320. Sieben S-340. Sieben S-360. Stewart S-56B Stewart S-60. Stiegelmeier S-300A Hi-B-Jack Stiegelmeier S-300B Hi-B-Jack Stiegelmeier S-306. Super-Crost 660.	129.9 123.6 143.5 120.1 118.3 121.6 106.2 104.8 117.8 123.7 123.0	15.0 14.9 15.0 14.6 13.9 15.3 14.5 14.5 15.5 17.8 15.7	94 98 95 90 89 94 95 93 77 85 89 88	91 91 92 87 82 88 87 86 86 87 82 88	0 0 0 0 1 0 1 0 0
Tiemann T-68 Tiemann T-78 Tiomco 812 Tomco 8080 Trisler T-19B Trisler T-32 Trisler T-32B Trisler T-33B Trisler T-33B Troyer L-14T Troyer M-11T Troyer M-11T Troyer M-13T Troyer M-13T Troyer M-15T Troyer M-17T	141.2 125.2 104.3 124.2 127.7 134.3 121.4 122.0 129.4 135.8 125.7 105.6 126.9 111.0 109.2	13.9 14.1 14.8 16.0 15.4 14.5 15.0 14.8 14.7 16.0 15.6 14.4 14.8 15.5	97 82 97 96 88 88 98 93 92 99 93 98 100	92 90 79 86 84 88 84 89 83 82 83 88 88 88	0 1 1 2 0 0 0 0 1 0 1 2 0 0 0 0 0 0 0 0
U.S. 13 (Station)	129.3	14.8	93	88	3
Van Horn VH-98Van Horn VH-101	127.6 136.3	15.7 16.6	96 95	81 93	1 0
Whisnand 830. Whisnand 852. Wyffels W-600.	129.8 133.5 106.4	15.8 15.5 13.0	<b>97</b> <b>96</b> 85	88 90 72	0 0 0
Average of all entries  Difference necessary for significance	124.0 24.3	14.9	93 11.2	87 11.4	.6 2.7

## Table 5. — EAST NORTH-CENTRAL ILLINOIS: Ashkum

(Performance data of highest-yielding hybrid and of all hybrids not significantly lower in yield are shown in **boldface** type)

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1956 RESULTS				
Ainsworth X-13-3 Ainsworth X-21	bu.	perct.	perct.	perct.
	123.3	16.8	92	86
	109.8	15.0	96	81
Bear OK-24Bear OK-40A	124.3	22.5	<b>96</b>	<b>82</b>
	119.5	18.0	98	85
Crow's Deep Root.	123.1	16.5	97	83
Crow's 495.	105.6	18.3	97	67
Crow's 607.	125.9	18.4	96	91
Crow's 608.	122.7	17.1	96	86
DeKalb A-8.  DeKalb 623.  DeKalb 632.  DeKalb 665.  DeKalb 803.  DeKalb 805.  DeKalb 807.  DeKalb 811.  DeKalb 820.  DeKalb 837.	113.1 102.0 139.8 121.3 119.8 127.6 124.5 125.8 116.2 130.7	18.4 16.4 19.4 18.0 20.2 18.3 18.3 18.5 17.4 21.0	94 97 96 97 95 100 99 97 90	70 78 85 83 83 87 76 80 83 92
Frey 425. Frey 644. Frey 645. Frey 692. Frey 892.	121.5	16.5	100	79
	129.8	20.4	99	88
	117.6	16.8	95	82
	123.2	17.4	99	80
	130.0	16.4	94	87
Funk's G-76.	132.4	16.9	96	88
Funk's G-95.	110.2	16.8	94	72
Funk's G-95A.	126.2	17.4	98	75
Holden H-322 Holden H-433 Holden H-532 Holmes 19A Holmes 39 Holmes 46 Hulting 242 Hulting 380B Hulting 481 Hulting 680	123.6 123.1 118.1 125.0 125.6 125.6 133.2 129.1 126.3 105.8	19.4 17.0 19.4 15.8 19.5 17.2 15.7 16.6 19.6	98 99 97 95 100 98 97 95 98 97	87 82 83 88 79 77 81 80 88 86
Illinois 274-1 (Station). Illinois 972A-1 (Station). Illinois 1421 (Station). Illinois 1617 (Station).	133.1	16.8	100	82
	131.4	19.0	96	87
	128.2	18.8	99	75
	125.2	18.4	96	86
Keystone 38.  Moews CB70A.  Moews CB90.  Moews CB96.  Moews 523.  Moews 524A.  Munson M13.  Munson M77.	116.6 125.0 125.7 116.6 134.2 123.5 130.0 118.7	16.8 18.5 19.6 19.5 18.3 20.5 16.5	98 99 96 88 94 98 96 93	80 82 84 82 89 84 88 76
Null N-100.	129.0	19.3	97	89

## Table 5. — EAST NORTH-CENTRAL ILLINOIS: Ashkum — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1956 RESULTS — con	ncluded			
	bu.	perct.	perct.	perci.
P.A.G. 234	120.8	15.3	96	88
P.A.G. 290	102.4	15.6	96	78
P.A.G. 347		16.6	99	88
P.A.G. 351		16.0	96	86
P.A.G. 377		18.0	95	84
P.A.G. 383		17.4 18.5	94 96	87 89
P.A.G. 401 P.A.G. 403		17.8	97	86
Pioneer 301B.		17.8	95	85
Pioneer 306B		16.4	97	82
Pioneer 313B		18.9	85	82
Pioneer 316		18.7	97	91
Pioneer 317A		19.6	100	89
Pioneer 329		16.7	100	79
Pioneer 345		15.4	100	66
Pioneer 354		15.4 18.6	98 96	88 77
Pioneer 3608		17.3	99	79
Producers 921		16.5	95	80
Producers 940.		17.7	94	86
Producers 946		16.4	99	90
Schwenk S-26		17.5	98	82
Schwenk S-27		19.4	98	86
Smiley M-9 Stewart S-56B		16.5 19.4	86 98	90 87
Stewart S-30B		18.3	97	77
Stiegelmeier S-300A Hi-B-Jack	115.2	16.6	98	88
Super-Crost 500A	127.9	15.8	95	88
Super-Crost 660		17.3	89	83
Super-Crost 670	103.6	14.6	98	78
<u> Tiemann T-68</u>		15.3	95	87
Tiemann T-78		19.5	98	82
Fomco 812		20.0	<b>99</b> 97	78 82
Trisler T-19B		20.3 18.8	96	78
Frisler T-32B	126.4	17.7	99	88
Trisler T-33		15.4	93	88
Ггоуег L-14T	. 128.8	18.8	97	87
Froyer M-11T		18.8	98	85
Troyer M-12T		19.8	98	80
Froyer M-13T		16.8	100	90
Froyer M-15T		17.4 18.3	94 98	92 82
U.S. 13 (Station)		16.4	95	88
Van Horn VH-76	. 118.9	17.8	94	73
Van Horn VH-100		20.5	98	86
Whisnand 804		17.4	93	89
Whisnand 830		19.3	97	77
Wyckoff's W-20		16.9 20.0	99 98	88 84
Wyckoff's W-25A Wyckoff's W-46A	. 136.8	23.3	90	91
Average of all entries		17.8	96	83
Difference necessary for significance			7.7	13.

#### Table 6. — EAST-CENTRAL ILLINOIS: Urbana

(Performance data of highest-yielding hybrid and of all hybrids not significantly lower in yield are shown in boldface type)

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Droppe ears
SUMMARY	: 1954	-1956			
	bu.	perct.	perct.	perct.	perct.
Holmes 39	124.0	18.1	73	94	
Appl A-159	123.4	17.5	85	92	
Funk's G-95A	121.1 120.7	16.8 18.0	83 86	92 94	
Canterbury 420	120.7	17.6	80	94	
Bear OK-69	119.9	17.7	82	89	
Pioneer 6727	119.7	17.8	71	92	
Pioneer 316*	119.1	17.2	84	92	
Bear OK-72	118.0	18.4	85	95	
Holmes 13	117.9	17.3	87	93	
Munson M119	117.6	17.9	83	89	
Appl A-130	117.1	16.9 17.3	84 88	90 90	
Ciemann T-72	117.1 116.6	17.3 17.6	83	89	
Moews 520	116.4	17.6	83	93	
Pioneer 313B.	115.2	17.8	72	93	
Trisler T-32B	115.2	18.2	87	89	
Canterbury 400	115.2	17.2	84	94	• • •
Frey 645	114.9	17.0	85	91	
Punk's G-95	114.7	16.7	80	9ī	
llinois 1570b	114.6	17.3	79	91	
AES 805°	114.6	18.6	91	92	
rey 892	114.3	16.7	86	90	
Canterbury 404	114.1	17.0	81	92	
runk's G-91	113.3	18.2	88	88	
Producers 13-1	112.8	17.5	84	93	
Producers 940	112.8	17.1	76	94	
Moews 523	112.2 112.1	17.8 18.0	78 82	93 92	
Ainsworth X-14-3llinois 6021 (Station)	111.4	17.7	80	90	
Ooubet D-41	111.3	17.8	90	92	
llinois 1246d	110.9	16.0	80	9 <u>1</u>	
llinois 21°	110.5	16.4	79	86	
P.A.G. 403	110.3	18.1	87	92	
Pioneer 302	110.3	19.5	82	92	
Crow's 608	110.0	17.1	83	92	
J.S. 13 <sup>f</sup>	109.7	17.2	83	92	
DeKalb 875	108.0	16.7	88	90	
Southern States Pocohontas	107.7 106.7	$\frac{17.1}{17.1}$	92 87	83 87	
Ceystone 38A					• · ·
P.A.G. 351	106.5	17.4	83	86	
Ciemann T-78	105.7 105.0	$\frac{16.9}{17.2}$	86 84	90 86	
7.A.G. 383 DeKalb 817A	103.0	17.2 16.7	84 81	92	
Frisler T-32.	100.5	17.3	83	94	
	113.6	17.4	83	91	
Average of all entries  Difference necessary for significance	14.7	1.4	10.0	6.3	
1956 RES	SIII.TS	1			
AES 702 (Mountjoy)	120.0	15.0	89	92	1
AES 805 (Station)	128.8	16.6	96	92	
linsworth X-13-3	137.4	15.5	90	9 <u>1</u>	5 5
Ainsworth X-14-3	130.6	15.8	92	95	1
Appl A-130	131.2	14.5	97	93	0
Appl A-159	137.2	15.0	94	93	3

 Average of Pioneer 9212 in 1954, and Pioneer 316 in 1955 and 1956.
 Average of Illinois 1570 (Mountjoy) 1954, Illinois 1570 (Stone) 1955, and Illinois 1570 (Pfeifer) 1956.

Average of AES 805 (Stone) 1954, and AES 805 (Station) 1955 and 1956.
 Average of Illinois 1246 (Mountjoy) 1954, and Illinois 1246 (Station) 1955 and 1956.
 Average of Illinois 21 (Mountjoy) 1954 and 1955, and Illinois 21 (Station) 1956.
 Average of U.S. 13 (Stone) 1954 and 1955, and U.S. 13 (Pfeifer) 1956.

Table 6. — EAST-CENTRAL ILLINOIS: Urbana — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped ears
1956 RESULTS	S — con	itinued			
Bear OK-24. Bear OK-69 Bear OK-72. Bear OK-96	bu. 141.0 134.5 137.1 145.2	perct. 16.5 15.6 17.6 16.8	perct. 96 96 95 98	perct. 92 94 92 88	perct. 3 1 0 0
Canterbury 400 Canterbury 404 Canterbury 420 Crow's 607 Crow's 608 Crow's 805 Crow's 805	129.9 131.8 131.5 119.3 122.1 129.6 132.8	15.2 14.8 15.4 15.3 15.0 15.9 14.8	94 94 88 90 97 90	94 93 96 93 87 91 88	2 3 4 1 1 1 3
DeKalb A-8 DeKalb 803 DeKalb 805 DeKalb 807 DeKalb 811 DeKalb 812 DeKalb 812 DeKalb 817A DeKalb 873 DeKalb 875 DeKalb 876 Doubet D-25 Doubet D-41	129.2 104.0 128.8 131.8 121.9 139.9 105.2 116.4 123.0 128.2 122.7 132.2	12.6 16.4 15.3 15.0 15.4 17.0 14.2 15.4 13.0 17.4 16.2	91 90 96 95 94 100 98 90 97 94 98 93	91 81 88 87 93 92 88 92 91 89	8 0 4 1 1 1 3 4 4 0 1
Frey 645. Frey 692. Frey 892. Funk's G-91 Funk's G-95. Funk's G-95A	138.3 135.1 136.1 138.4 121.6 139.4	14.5 15.4 13.0 14.8 11.9 13.7	94 94 95 97 89 95	90 95 91 86 91 92	4 0 0 1 8 2
Griffith 125-2.  Holden H-322.  Holmes 13.  Holmes 39.  Huey H-106.  Huey H-235.  Hulting 380B.  Hulting 680.	132.0 133.0 132.1 139.1 135.0 130.6 132.8 127.7 124.0	16.9 13.9 16.4 14.0 15.4 14.7 14.5 16.5	96 98 96 96 97 90 97	88 87 92 90 92 87 91 91	4 3 3 0 5 3 2
Illinois 21 (Station) Illinois 274-1 (Station) Illinois 774-1 (Station) Illinois 1091 (Mountjoy) Illinois 1091 (Mountjoy) Illinois 1246 (Station) Illinois 1246 (Station) Illinois 1570 (Pfeifer) Illinois 1617 (Station) Illinois 1617 (Station) Illinois 1617 (Station) Illinois 1618 (Station) Illinois 1618 (Station) Illinois 1813 (Pfeifer) Illinois 1813 (Station) Illinois 1893 (Station) Illinois 1991 (Station) Illinois 1991 (Station) Illinois 1992 (Station)	129.1 141.8 142.9 131.0 111.0 128.3 133.6 131.2 115.4 115.0 136.5 98.4 138.0 128.9 120.1	13.0 15.0 13.5 15.2 13.0 12.4 17.0 14.0 15.7 20.1 16.8 15.2 14.6 14.5	91 100 97 97 91 91 97 93 97 90 99 96 96 94	87 89 94 97 88 89 92 93 90 81 92 97 90 88 87	1 1 3 0 0 0 3 2 4 1 5 2 2 2 2 2
Keystone 38A.  Moews 520.  Moews 523.  Moews 524A.  Moews 830.  Munson M15.  Munson M19.	119.6 122.4 132.3 139.0 120.7 132.8 134.7	13.8 16.5 15.8 17.8 17.5 13.5	98 95 95 90 98 99	83 90 96 90 95 92 93	0 1 3 1 3 0 6
Null N-83. Ohio C-92 (Nickel). P.A.G. 173. P.A.G. 347. P.A.G. 351. P.A.G. 383. P.A.G. 401.	126.0 132.6 127.8 118.3 125.7 108.2 124.1	15.6 14.4 14.9 12.8 15.8 15.5 13.5	94 92 94 97 95 94	89 95 83 80 89 78	3 1 2 0 2 1 4

Table 6. — EAST-CENTRAL ILLINOIS: Urbana — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped ears
1956 RESULT	S — cor	ıcluded			
P.A.G. 403 P.A.G. 444 P.A.G. 454	bu. 119.1 136.0 108.0	perct. 16.6 21.3 20.2	perct. 97 98 95	perct. 88 88 84	perct. 3 0 1
Pioneer 300 Pioneer 301B Pioneer 302 Pioneer 312A Pioneer 313B Pioneer 316	129.3 126.4 120.2 129.1 121.3 130.8	14.1 14.5 18.5 22.4 16.2 14.8	95 96 95 99 90 97	88 93 97 94 91	5 4 1 1 5
Pioneer 317A Pioneer 329 Pioneer 3608. Pioneer 6727. Producers 13-1 Producers 921. Producers 940. Producers 1018.	125.5 121.7 131.6 132.2 127.9 136.6 120.6 125.5	17.4 14.5 16.3 15.7 15.4 14.2 15.5 17.8	95 98 97 86 91 98 95	88 92 94 91 97 90 92 89	0 2 3 4 3 3 0 3
Schwenk S-34. Southern States Mohawk Southern States Pocohontas Stiegelmeier S-300 B Hi-B-Jack Stiegelmeier S-366. Stiegelmeier S-600 Hi-Protein Super-Crost 850. Super-Crost 880.	132.3 118.9 125.1 119.1 130.2 126.0 132.7 116.0	14.6 14.6 14.2 16.2 20.2 17.6 14.6	97 98 100 97 98 93 95	93 86 89 85 92 89 89	4 1 3 1 2 2 3 4
Tiemann T-72. Tiemann T-78. Tomco 8585. Tomco 9292. Trisler T-19B. Trisler T-23. Trisler T-32. Trisler T-32B. Trisler T-33. Trisler T-33. Trisler T-33. Trisler T-31. Troyer L-11. Troyer L-12. Troyer L-13. Troyer L-14T. Troyer M-11T. Troyer M-13T.	130.9 110.0 129.8 125.9 129.6 120.2 82.9 133.8 127.8 132.9 147.1 133.2 134.3 129.6 137.0	15.4 15.3 17.5 14.9 14.3 11.7 15.4 16.0 16.6 16.1 17.8 17.0 14.8 14.7	98 93 96 95 94 95 97 98 90 97 96 99 97	91 89 90 89 94 90 96 93 93 97 94 92 96 95 89	1 5 4 4 1 2 2 0 2 2 10 4 2 8 3
U.S. 13 (Pfeifer).  Van Horn VH-76.  Van Horn VH-95-1.  Van Horn VH-97.  Van Horn VH-98.  Van Horn VH-100.  Van Horn VH-101.	116.6 121.7 136.8 120.7 128.9 139.6 128.6	14.5 16.2 18.2 15.9 15.2 14.4 16.7	98 94 92 98 95 97 91	94 89 88 92 91 88 93	5 2 2 1 1 1 2
Whisnand 830. Whisnand 851. Whisnand 852.	136.2 139.1 128.2	16.3 18.0 17.3	95 96 95	89 92 93	3 0 1
Average of all entries	127.8 26.8	15.6	95 7.1	91 7.6	2.3 4.6

## Table 7. — WEST SOUTH-CENTRAL ILLINOIS: Greenfield

(Performance data of highest-yielding hybrid and of all hybrids not significantly lower in yield are shown in **boldface** type)

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1956 RESULTS				
Ainsworth X-14-A. Ainsworth X-14-3.	bu.	perct.	perct.	perct.
	138.8	15.1	99	96
	121.2	13.3	100	91
Bear OK-40A.	118.3	11.8	100	94
Bear OK-69.	118.6	15.5	100	95
Bear OK-72A.	126.5	14.1	100	94
Bear OK-96.	127.4	15.6	100	96
Bruns P-38.	122.4	13.0	99	91
Canterbury 400. anterbury 420. crow's 805. Crow's 821.	128.2	12.8	99	94
	134.8	11.6	99	96
	113.0	14.4	100	84
	112.4	12.8	100	89
DeKaib 803. DeKaib 803. DeKaib 805. DeKaib 811. DeKaib 812. DeKaib 817A. DeKaib 837. DeKaib 873. DeKaib 873. DeKaib 876. DeKaib 893. DeKaib 893.	102.2 129.1 121.1 114.9 119.6 118.8 119.2 123.5 134.0 122.0	14.6 13.7 14.8 13.6 13.6 14.4 14.8 13.0 20.4	99 100 99 100 100 100 98 100 99	94 86 91 90 98 94 90 90 92
Embro 33	117.6	14.3	100	89
Embro 36A	111.8	13.5	100	89
Embro 49B	113.5	18.8	99	99
Embro 101A	113.3	19.2	99	91
Funk's G-91	117.0	$14.4 \\ 12.4$	100	88
Funk's G-95A	124.9		100	94
Iolmes 39. Iolmes 46. Huey H-50.	118.3	14.0	99	91
	121.9	12.4	99	87
	1 <b>0</b> 8.3	12.4	100	85
llinois 1337 (Dittmer)	123.4	12.5	100	94
	115.4	11.9	99	92
	115.3	13.5	100	92
Leystone 45	133.9	16.2	99	97
Aoews 523. Moews 524A. Moews 814. Morton M-6. Morton M-12A. Morton M-70. Morton M-303.	110.3	14.4	100	88
	113.8	13.6	100	95
	120.5	12.8	100	90
	124.1	16.6	100	96
	120.9	10.9	100	90
	124.7	13.1	99	97
	123.9	13.6	100	98
Ohio C-92 (Station)	117.3	13.6	99	96
A.G. 173 A.G. 347 A.G. 351 P.A.G. 383 P.A.G. 401 P.A.G. 403 P.A.G. 403 P.A.G. 454 P.A.G. 454 Pioneer 300 Pioneer 301B Pioneer 312A Pioneer 313B Pioneer 313B Pioneer 313B Pioneer 313B Pioneer 313B Pioneer 319 Pioneer 319	128.1 127.9 116.3 112.7 119.0 129.3 124.3 135.1 113.4 132.3 128.8 124.7 114.6 131.9 114.6 115.7	12.1 12.3 14.6 12.5 12.4 16.2 18.0 12.7 12.5 16.7 15.3 12.6 12.2	95 100 100 100 100 100 100 92 100 100 100 99 100 99	90 96 90 96 98 97 81 94 99 94 92 90 99

## Table 7. — WEST SOUTH-CENTRAL ILLINOIS: Greenfield — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1956 RESULTS — cond	cluded			
	bu.	perct.	perct.	perct.
Pioneer 6727	128.5	12.8	100	97
Pocklington P-48	125.4	13.0	100	96
Pocklington P-60A	109.6	15.8	99	77
Pocklington P-62A	123.7	14.0	100	88
Pocklington P-64	123.5	14.3	100	95
Pocklington P-66	119.5	13.8	100	94
Pocklington P-70	134.0	14.0	100	92
Pocklington P-75	125.0	14.3	100	92
Pocklington P-75A	146.9	16.0	97	88
Pocklington P-78	116.3	14.4	100	90
Pocklington P-78A	137.3	15.5	100	98
Producers 13-1	122.1	13.5	100	95
Producers 921	135.8	11.6	100	90
Producers 1018	121.3	13.5	99	94
Producers 1022A	135.3	15.8	99	96
Producers 1050A	119.3	12.4	99	91
Stone 843	114.3	14.0	100	75
Super-Crost 700A	118.8	12.3	100	89
Super-Crost 840	114.5	14.8	99	95
Super-Crost 850	112.9	11.8	100	<b>9</b> 2
Tiemann T-68	108.4	11.7	99	88
Tiemann T-72	109.9	11.8	100	86
Tiemann T-78	125.0	11.8	100	97
Trisler T-32B	121.9	14.4	98	88
Trisler T-33B	124.6	12.4	100	88
Van Horn VH-76	116.9	13.6	99	90
Van Horn VH-97	128.0	13.3	100	91
Van Horn VH-101	113.8	15.6	100	96
Van Horn VH-110	108.9	14.1	100	80
Whisnand 830	129.6	13.7	100	91
Whisnand 852	145.9	15.4	100	96
Average of all entries	121.8	13.8	99	92
Difference necessary for significance	17.1		2.3	13.1

#### Table 8. — SOUTHERN ILLINOIS: Brownstown

(Performance data of highest-yielding hybrid and of all hybrids not significantly lower in yield are shown in boldface type)

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1954-1	1956	-		
Funk's G-91 Canterbury 400 Munson M19. Illinois 1852 (Station) Producers 13-1 Producers 946. Bear OK-72B Pioneer 302	bu. 73.3 70.7 70.1 69.5 69.2 68.7 68.4 67.4	perct. 15.7 14.4 15.0 16.9 15.7 15.5 16.9 18.0	perct. 72 69 69 80 68 77 75 70	perct.  87 94 93 89 93 89 93 83 95
Tiemann T-78 Tiemann T-72 Pioneer 313B Trisler T-33B P.A.G. 631(W) Illinois 1511a Moews CB70A Canterbury 420.	67.1 66.8 66.5 66.2 66.0 65.9 65.6 65.5	14.4 15.4 16.4 16.5 15.4 15.7	75 71 66 68 63 69 77 70	88 91 90 87 90 92 84 90
P.A.G. 383. Canterbury 126. Pioneer 6727. Producers 1018. Pioneer 332. Whisnand 830. Ainsworth X-14-3. DeKalb 925(W).	64.8 64.4 64.4 64.0 63.8 63.8 63.6 63.5	15.2 14.7 17.6 16.6 17.7 17.2 16.1 17.2	72 71 69 72 64 78 76 66	91 89 87 89 92 81 91
Bruns P-38. Trisler T-32B. P.A.G. 173 DeKalb 875. DeKalb 817A. Moews CB60A AES 805 <sup>6</sup> . P.A.G. 403	63.0 63.0 62.3 61.4 61.3 61.3 60.8 60.6	14.2 17.1 15.1 16.1 15.2 17.5 16.8 15.9	72 71 73 74 76 70 73 74	85 83 84 87 88 85 85
Illinois 1570°. Pioneer 316 <sup>d</sup> . U.S. 13°. Illinois 1656 (Mountjoy). Southern States Potomac.	60.4 59.9 57.9 57.6 55.1	15.9 16.7 15.2 15.7 15.9	70 75 70 71 62	88 91 82 89 92
Average of all entries	64.4	16.0	71	89
Difference necessary for significance	12.8	2.0	9.2	8.8
1956 RESULTS				
AES 805 (Station). Ainsworth X-14-A. Ainsworth X-14-3. Appl A-159.	99.9 95.2 93.1 98.3 91.8	18.4 17.8 15.1 16.2 15.8	99 96 97 94 100	91 94 92 90 92
Bear OK-69. Bear OK-72B. Bear OK-878. Bruns P-38.	110.1 97.8 105.3 94.2	18.1 19.1 17.0 15.1	99 99 98 98	90 90 92 94
Canterbury 126. Canterbury 400. Canterbury 420.	90.9 102.8 90.4	13.5 14.5 17.4	99 96 99	88 96 87
DeKalb 803.  DeKalb 811  DeKalb 812  DeKalb 817A.  DeKalb 873	74.7 99.2 75.9 89.6 106.1	18.9 14.4 16.2 15.0 17.8	99 99 100 99 98	79 90 85 92 92

- Average of Illinois 1511 (Appl) 1954 and 1955, and Illinois 1511 (Station) 1956.
   Average of AES 805 (Graham) 1954, and AES 805 (Station) 1955 and 1956.
   Average of Illinois 1570 (Bruns) 1954 and 1955, and Illinois 1570 (Pfeifer) 1956.
   Average of Pioneer 9212 in 1954, and Pioneer 316 in 1955 and 1956.
   Average of U.S. 13 (Graham) 1954, U.S. 13 (Station) 1955, and U.S. 13 (Pfeifer) 1956.

Table 8. — SOUTHERN ILLINOIS: Brownstown — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1956 RESULTS — con	cluded			
	bu.	perct.	perct.	perct.
DeKalb 875	88.5	17.6	98	86
DeKalb 876	94.8 101.2	16.9 18.6	98 97	91 92
DeKalb 898	101.2	15.2	97	94
DeKalb 925(W)	96.1	17.2	99	91
Funk's G-91	99.6	16.0	97 100	86 91
Funk's G-95A	96.6	14.9	100	91
Holden H-56.	110.4	17.1	99	94
Illinois 1511 (Station)	100.1 95.6	14.9 16.2	96	87
Illinois 1570 (Pfeiter)	87. <b>0</b>	17.5	96	89
Illinois 1656 (Mountjoy)	94.3 96.4	16.1 17.5	98 96	94 81
Illinois 1813 (Pfeifer)	95.8	18.8	98	85
Illinois 1851 (Station)	96.2	19.1	99	92
Illinois 1852 (Station)	93.7 94.2	16.3 17.1	99 100	93 85
Keystone 107(W)	85.9	21.4	94	86
Moews CB60A	96.3	19.4	99	88
Moews CB70A	98.4	17.2	99	90
Moews CB90	99.5	15.1	99	84
Moews CB90A	92.4 98.8	16.8 15.2	100 99	91 <b>94</b>
Ohio C-92 (Station)	86.4	15.0	100	86
P.A.G. 173	93.3	15.7	99	87
P.A.G. 383	94.8	14.4	100	94
P.A.G. 401 P.A.G. 403	94.5 90.4	15.5 15.8	<b>99</b> 99	90 92
P.A.G. 444	102.8	17.5	98	84
P.A.G. 454	95.2	18.6	99	90
P.A.G. 485 P.A.G. 631(W)	90.5 96.7	19.5 17.8	95 <b>97</b>	89 <b>90</b>
P.A.G. 633(W)	91.2	19.5	98	90
Pioneer 300	94.6	15.9	95 99	86
Pioneer 301B Pioneer 302	92.1 107.0	16.2 18.8	97	88 <b>96</b>
Pioneer 312A	98.0	20.2	100	92
Pioneer 313B	98.7 93.8	14.8 16.7	95 99	91 92
Pioneer 332	90.8	18.5	97	91
Pioneer 3608	102.9	16.4	99	86
Pioneer 6727	100.3 104.9	16.8 18.4	97 100	90 91
Producers 13-1	99.8	14.6	91	94
Producers 940. Producers 946.	75.3 98.5	16.1 16.3	95 <b>99</b>	96 87
Producers 1018.	95.9	18.6	98	93
Producers 1022A	95.8	18.5	94	92
Southern States Potomac	88.6	15.4	93	91
Super-Crost 700A. Super-Crost 850.	99.5 79.8	14.3 13.8	99 99	90 93
<del>-</del>	92.8	15.5	100	87
Tiemann T-72 Tiemann T-78	93.7	14.6	98	87
Trisler T-23	96.6	13.7	99	95
Trisler T-32 Trisler T-32B	93.5 100.9	18.2 18.0	99 99	92 89
Trisler T-32B. Trisler T-33.	90.8	16.1	97	87
Trisler T-33B	100.9	17.6	91	92
U.S. 13 (Pfeifer)	94.1	15.5	97	90
Van Horn VH-76. Van Horn VH-100.	94.5 104.7	15.8	97 99	94 87
Van Horn VH-121	94.4	16.4 21.7	99	87
Whisnand 830	88.2	19.3	100	84
Whisnand 852	91.6	18.7	98	92
Average of all entries	95.3	16.7	98	90
Difference necessary for significance	17.2		12.3	8.2

### Table 9. — EXTREME SOUTHERN ILLINOIS: Eldorado 1954, Carbondale 1955, Wolf Lake 1956

(Performance data of highest-yielding hybrid and of all hybrids not significantly lower in yield are shown in boldface type)

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1954-	1956			
P.A.G. 631(W) Ainsworth X-14-A DeKalb 925(W) Stull 400(W) Moews CB60A Whisnand 851 Tiemann T-78	bu. 96.4 95.5 93.2 92.9 92.0 91.6	perct. 18.4 17.0 20.0 17.0 17.2 18.5 16.3	perct.  96 89 97 96 96 96	perct. 89 89 90 91 86 91
Producers 1018 Pioneer 6727 U.S. 13* Moews CB90A Tiemann T-72. Funk's G-704 Illinois 1852 (Station)	90.7 90.5 89.5 89.2 88.9 88.6 88.0	16.3 17.8 16.5 17.2 16.2 19.2 17.3	96 95 97 94 98 96 97	93 89 91 88 89 83 88
Funk's G-711 Pioneer 316b AES 805c Pioneer 302 DeKalb 898 Pioneer 313B DeKalb 875 DeKalb 875 PA.G. 403	87.9 87.5 86.2 85.4 84.4 83.7 82.6 81.0	21.0 16.7 16.7 18.0 17.2 16.9 17.1 15.9	91 94 98 98 97 89 92 96	90 94 88 91 91 91 89
Awerage of all entries	88.6 17.0	17.5 1.6	96 5.1	90 7.4
1956 RESULTS				
AES 805 (Station)	103.3	13.7	100	79
Ainsworth X-14-A.  Bear OK-72A.  Bear OK-890.	95.6 112.2	14.6 13.9 13.8	91 100 100	87 92 91
DeKalb 817A  DeKalb 873  DeKalb 875  DeKalb 876  DeKalb 896  DeKalb 896  DeKalb 898  DeKalb 898  DeKalb 1023  DeKalb 1023	99.7 91.6 94.3 101.4 107.5 108.4 99.4 107.7 124.0 134.8	14.1 14.2 14.4 13.8 16.3 14.6 14.5 15.4 16.0 15.6	96 94 100 97 99 99 100 100	91 87 88 87 91 87 90 85 94
Funk's G-704 Funk's G-706 Funk's G-711	96.5 104.6 108.3	15.4 13.8 16.8	97 99 97	82 91 94
Hunerkoch H-34. Hunerkoch H-40. Hunerkoch H-48.	102.9 90.7 100.5	13.3 15.2 16.3	100 100 100	91 79 84
Illinois 1511 (Station) Illinois 1570 (Station) Illinois 1677 (Station) Illinois 1657 (Station) Illinois 1852 (Station) Illinois 1858 (Station) Illinois 1913 (Station) Illinois 1919 (Station) Illinois 1919 (Station) Illinois 1919 (Station)	110.2 108.5 96.5 101.2 107.2 114.4 108.8 104.7 112.8	13.6 13.6 13.1 14.2 13.1 13.8 13.0 13.1	98 96 96 100 98 100 99 100 98	90 84 89 79 80 89 90 84

Average of U.S. 13 (Graham) 1954, and U.S. 13 (Station) 1955 and 1956.
 Average of Pioneer 9212 in 1954, and Pioneer 316 in 1955 and 1956.
 Average of AES 805 (Graham) 1954, and AES 805 (Station) 1955 and 1956.

<sup>(</sup>Table is concluded on next page)

Table 9. — EXTREME SOUTHERN ILLINOIS: Eldorado 1954, Carbondale 1955, Wolf Lake, 1956 — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1956 RESULTS — cond	cluded			
	bu.	perct.	perct.	perct.
Keystone 256	110.4	16.2	95	74
Moews CB60A	112.2	13.8	99	88
Moews CB70A	106.0	13.3	94	91
Moews CB90	87.7	13.4	99	92
Moews CB90A	114.5	14.5	94	94
Moews CB100A	102.2	14.5	100	85
Ohio C-92 (Station)	100.9	14.9	100	91
P.A.G. 401	97.0	13.3	100	88
P.A.G. 403	100.2	13.6	99	86
P.A.G. 444 P.A.G. 454	97.2 108.7	13.4 14.5	100 100	88 90
P.A.G. 485	102.0	14.8	99	90
P.A.G. 631(W)	111.2	14.8	96	88
P.A.G. 633(W)	104.8	15.4	100	87
Pioneer 300	107.8	13.8	99	88
Pioneer 301B	97.2	14.4	100	80
Pioneer 302	109.9	15.1	100	95
Pioneer 312A	107.4	16.7	97 91	89
Pioneer 313B Pioneer 316	95.7 92.3	$\frac{14.4}{14.7}$	93	88 90
Pioneer 332	109.4	13.9	100	88
Pioneer 3608	105.0	13.4	99	91
Pioneer 6727	111.9	14.4	100	92
Producers 1018	105.4	13.8	100	96
Producers 1022A	100.8 89.2	14.4 14.1	100 100	95 95
Producers 1050A				
Stull 100YStull 101Y	84.8 101.7	14.4 15.4	100 100	90 91
Stull 400(W)	114.8	13.6	100	85
Super-Crost 1005A	116.5	14.3	98	94
Fiemann T-72	103.4	13.4	99	88
Tiemann T-78	108.0	14,1	100	94
`risler T-23	95.7	14.2	95	79
risler T-32	103.9	14.1	100	87
risler T-32B	101.8	13.8 14.4	100 100	94 96
Frisler T-33 Frisler T-33B	103.4 99.1	14.4	99	90
J.S. 13 (Station)	111.6	14.0	100	94
Van Horn M66Y	109.7	14.6	99	89
Van Horn VH-55(W)	106.1	15.3	100	91
Van Horn VH-121	96.7	15.6	100	82
Vhisnand 830Vhisnand 851	$114.1 \\ 102.7$	14.2 15.1	100 99	92 94
Average of all entries	104.5	14.3	98	89
			5.6	12.
Difference necessary for significance	20.1		5.0	14.

## **SUMMARY**

In 1956, 352 hybrids were grown on seven test fields in Illinois. Growing conditions were exceptionally favorable, and record yields were produced at all test locations.

1956 yields. The Urbana test field, in east-central Illinois, had the highest average yield, 127.8 bushels per acre. Average yields on the other test fields were: \*DeKalb 117.3, Galesburg 124.0, Ashkum 123.8, Greenfield 121.8, Brownstown 95.3, and Wolf Lake 104.5.

The average yield of all hybrids tested was 116.4 bushels. This was by far the highest average on record for these tests. The average yield for the five test locations comparable with the 1955 locations was 27 percent higher than the 1955 average and 24 percent higher than the previous record average set in 1948. Each test location produced the highest average yield in the history of performance testing in its comparable area.

Three-year summaries, 1954-1956. The highest-yielding hybrids in the three-year summaries were the following:

Northern Illinois — Hulting 238, Pioneer 354, P.A.G. 277, Sieben S-340, Frey 410, P.A.G. 244.

West North-Central — Holmes 39, Pioneer 313B, Schwenk S-34, Moews 520, Tiemann T-78, Schwenk S-24.

East-Central — Holmes 39, Appl A-159, Funk's G-95A, Canterbury 420, Frey 692, Bear OK-69.

Southern — Funk's G-91, Canterbury 400, Munson M119, Illinois 1852 (Station), Producers 13-1, Producers 946.

Extreme Southern — P.A.G. 631(W), Ainsworth X-14-A, DeKalb 925(W), Stull 400(W), Moews CB60A, Whisnand 851.

Single-year averages, 1956. Two test locations, Ashkum and Greenfield, were included in the testing program for the first time in 1956. The six highest-yielding hybrids in each of these two tests were the following:

East North-Central — DeKalb 632, Pioneer 313B, Schwenk S-27, U.S. 13 (Station), Pioneer 316, Wyckoff W-46A.

West South-Central — Pocklington P-75A, Whisnand 852, Ainsworth X-14-A, Pocklington P-78A, Producers 921, Producers 1022A.

Lodging. Nearly all plants were erect at harvest in every test field; the general average for all hybrids tested was 97 percent plants

erect at harvest. Statistically significant differences between hybrids in lodging were observed at Galesburg, Ashkum, Urbana, and Greenfield.

Moisture. The moisture content of the grain at harvest was far below normal, averaging 16.0 percent for all hybrids tested. The grain of most hybrids at Greenfield and Wolf Lake, and many at Galesburg, was dry enough at harvest to have been sold directly as No. 1 corn. Despite the fact that harvest of the test plots was completed by November 1, only a few hybrids at the two northernmost test locations had moisture contents as high as 20 percent at harvest.

Stand. Stands were generally good to excellent at all locations. The average stand for all entries tested was 88 percent, which compared favorably with average stand percentages in preceding years of the tests. Statistically significant differences between hybrids in stand percentages were found at DeKalb, Urbana, and Brownstown.

## CONTRIBUTORS OF SEED

AES Hybrids	.AES 702 (Ill. Agr. Exp. Sta.; Mountjoy)
Ain amouth Harbrida	AES 805 (Ill. Agr. Exp. Sta.)
And Unbride	Ainsworth Seed Co Mason City Appl's Hybrid Seed Co St. Joseph
Roor Hybrids	Bear Hybrid Corn CoDecatur, Box 628
Brung Hybrids	Bruns Bros. Seed Co
Canterbury Hybride	.C. E. Canterbury Seed CoCantrall
Crow's Hybrids	. Crow's Hybrid Corn CoMilford
DeKalh Hybrids	. DeKalb Agriculture Assn., Inc DeKalb
Doubet Hybrids	E. W. Doubet
Embro Hybrids	. Ed. F. Mangelsdorf and Bro., IncSt. Louis, Box 327
Frey Hybrids	Frey Hybrid Corn CoGilman
Funk's Hybrids	.Funk Bros. Seed CoBloomington
	. Griffith Seed CoBloomington
	. Roland Holden
Holmes Hybrids	. Holmes HybridsEdelstein
Huebsch Hybrids	.L. A. Huebsch and SonMundelein
Huey Hybrids	. Huey Seed CoCarthage
Hulting Hybrids	.G. E. Hulting and SonGeneseo
	. Hunerkoch Seed Co Metropolis
Illinois Hybrids	. Ill. 21 (Dittmer Seeds, Carthage; Ill. Agr. Exp. Sta.)
	Ill. 101 (Huebsch)
	Ill. 274-1, 972A-1 (Ill. Agr. Exp. Sta.)
	Ill. 1091 (Mountjoy; G. L. Pfeifer, Arcola)
	Ill. 1091A, 1246 (Ill. Agr. Exp. Sta.) Ill. 1277 (A. I. Coldwater and Son, Elwood; Nichols
	Bros.)
	Ill. 1280 (Coldwater)
	Ill. 1337 (Dittmer)
•	Ill. 1421, 1511 (Ill. Agr. Exp. Sta.)
	Ill. 1570 (Bruns, Dittmer, Ill. Agr. Exp. Sta., Pfeifer,
	Stone)
	Ill. 1617 (Ill. Agr. Exp. Sta.)
	Ill. 1656 (Mountjoy)
	Ill. 1657 (Ill. Agr. Exp. Sta.) Ill. 1813 (Pfeifer)
	III. 1813 (Fieler) III. 1831, 1851, 1852, 1868, 1893, 1902, 1913, 1919, 1936,
	2214W, 6021 (Ill. Agr. Exp. Sta.)
Keystone Hybrids	. Corneli Seed Co

St. Louis, Mo.

Moews Corn Belt HybridsMoews Corn Belt Co., IncBoswell, Indiana Moews HybridsMoews Seed CoGranville
Monier Hybrids
Morton HybridsRoy A. Morton and SonsBowen
Mountjoy HybridsMountjoy Hybrid Seed CoAtlanta
Munson Hybrids
Nichols Hybrids
Null HybridsNull Seed FarmsColchester
Ohio HybridsOhio C-92 (R. E. Nickel and Sons, Concord; Ill. Agr. Exp. Sta.)
P.A.G. Hybrids
Pioneer HybridsPioneer Hi-Bred Corn Co. of IllPrinceton
Pocklington Hybrids Pocklington Bros
Producers HybridsProducers Seed CoPiper City
Robe HybridsRobe Hybrid Seed CoSmithshire
Schwenk HybridsW. T. Schwenk and SonsEdwards
Sieben Hybrids
Smiley Hybrids
Steckley HybridsSteckley Hybrid Corn Co2416 N. St.,
Lincoln, Nebr.
Stewart HybridsFrank S. Stewart & SonPrinceville
Stiegelmeier HybridsH. L. StiegelmeierNormal
Stone Hybrids
Stull HybridsStull Corn CoSebree, Ky.
Super-Crost HybridsE. J. Funk and Sons
Tiemann HybridsBloomington
Tomahawk Hybrids Tomahawk Hybrid Seed Co Belmond, Iowa
Tomco Hybrids
Trisler Hybrids
Troyer Hybrids
U.S. Hybrids
Van Horn HybridsVan Horn Hybrids, IncCerro Gordo
Whisnand HybridsWhisnand Hybrid Corn CoArcola
Wyckoff Hybrids
Wyffels HybridsWilliam WyffelsGeneseo

## PEDIGREES OF 33 HYBRIDS

Following is a list of open-pedigree hybrids whose performance is shown in this bulletin.

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AES 702. (WF9 \times Hy2)(C103 \times M14)
                                                III. 1657....(K201×CI.21E)(K4×Oh7)
AES 805...(WF9 \times 38-11)(C103 \times Oh45) Ill. 1813....(WF9 \times Hy2)(C103 \times Oh45)
III. 21..... (WF9\times38-11)(Hy2\times187-2)
                                                III. 1831....(WF9 \times W146)(K237 \times Oh45)
                                                III. 1851....(C103 \times 38-11)(Oh7 \times CI.21E)
III. 101....(WF9 \times M14)(187-2 \times W26)
III. 274-1. (WF9\timesHy2)(Oh7\times187-2)
                                                III. 1852....(CI.21E \times C103)(38-11 \times Oh7)
III. 972A-1. (WF9\timesOh7)(Hy2\timesL317)
                                                III. 1868...(WF9 \times Hy2)(C103 \times Oh43)
III. 1091...(WF9 \times Hy2)(M14 \times 187-2)
                                                III. 1893....(C103\times38-11)(Oh7B\timesOh29)
III. 1091A...(WF9 \times M14)(Hy2 \times 187-2)
                                               III. 1902....(R141 \times R139)(R138 \times R142)
III. 1246...(WF9 \times 38-11)(R61 \times 187-2)
                                               III. 1912....(WF9\times38-11)(R151\timesR156)
III. 1277...(WF9\times M14)(187-2\times I.205)
                                               III. 1913....(WF9\times38-11)(R151\timesR154)
III. 1280...(WF9 \times M14)(187-2 \times Os420) III. 1919....(WF9 \times 38-11)(R130 \times R156)
III. 1337...(WF9 \times 38-11)(Hy2 \times R61)
                                               III. 1936....(WF9\timesHy2)(M14\timesB14)
III. 1421...(WF9\times Hy2)(P8\times Oh7)
                                                III. 2214(W) \cdot (R30 \times Ky27)(H21 \times K64)
III. 1511...(WF9 \times Hy2)(38-11 \times L304A) III. 6021....(R75 \times R76)(R84 \times K4)
III. 1570...(WF9 \times 38-11)(Hy2 \times Oh41)
                                               Ohio C-92...(WF9\times38-11)(Hy2\timesOh7)
III. 1617...(WF9\times B10)(Oh7\times Oh41)
                                                U.S. 13.....(WF9\times38-11)(Hy2\timesL317)
III. 1656...(WF9 \times 38-11)(Hy2 \times C103)
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## **INDEX**

When the table number for an entry is repeated in the index, the entry appears in both the summary portion and the 1956 portion of that table.

AES 702 (Mountjoy)	Doubet D-41
Ainsworth X-12	Embro 33
Ainsworth X-14-3	Embro 101A
Appl A-159	Frey 425
Bear OK-24	Frey 692
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Moews 5076       3         Moews 5077       3         Moews 5078       3         Moews CB60A       8, 8, 9, 9         Moews CB70A       5, 8, 8         Moews CB90       5, 8, 9         Moews CB90A       8, 9, 9         Moews CB96       5         Moews CB100A       9         Monier 12       4         Morton M-6       7         Morton M-10       7         Morton M-303       7         Mountjoy M-64       4         Munson M-13       5         Munson M-15       4, 6         Munson M-17       3, 3, 5         Munson M-19       4, 6, 6, 8, 8	Pocklington P-64 7 Pocklington P-66 7 Pocklington P-76 7 Pocklington P-75 7 Pocklington P-75 7 Pocklington P-75 7 Pocklington P-78 7 Pocklington P-78 7 Pocklington P-78 7 Pocklington P-78 7 Producers 13-1 4.4, 5, 6, 6, 7, 8, 8 Producers 326 33 Producers 505 33 Producers 510 33, 7 Producers 940 4, 5, 6, 6, 8 Producers 940 4, 4, 5, 6, 6, 8 Producers 946 4, 5, 8, 8 Producers 1018 6, 7, 8, 9 Producers 1022A 7, 8, 9 Producers 1050A 7, 9 Robe 11 4 Robe 30 4
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Moews 5076         3           Moews 5077         3           Moews 5078         3           Moews CB70A         5,8,8,9           Moews CB70A         5,8,8,9           Moews CB90         5,8,9           Moews CB90A         8,9,9           Moews CB96         5           Moews CB100A         9           Monier 12         4           Morton M-6         7           Morton M-10         7           Morton M-303         7           Mountjoy M-64         4           Munson M-13         5           Munson M-15         4,6           Munson M-19         4,6,6,8,8           Nichols NB-5C         3           Nichols NB-43         3           Nichols NB-75A         3,3           Null N-68         4,4           Null N-83         4,4           Null N-100         4,5	Pocklington P-64 7 Pocklington P-66 7 Pocklington P-76 7 Pocklington P-75 7 Pocklington P-75 7 Pocklington P-75 7 Pocklington P-75 7 Pocklington P-78 7 Pocklington P-78 7 Pocklington P-78 7 Pocklington P-78 7 Producers 326 3 Producers 326 3 Producers 505 3 Producers 505 3 Producers 501 3 Producers 940 4, 4, 5, 6, 6, 8 Producers 940 4, 4, 5, 6, 6, 8 Producers 940 4, 4, 5, 6, 6, 8 Producers 1018 6, 7, 8, 9 Producers 1022A 7, 8, 9 Producers 1050A 7, 9  Robe 11 4 Robe 30 4 Schwenk S-24 5 Schwenk S-25 5 Schwenk S-25 5 Schwenk S-27 5 Schwenk S-34 4, 4, 6 Sieben S-340 3, 3, 4, 4 Sieben S-340 3, 3, 4, 4 Sieben S-340 3, 3, 4, 4
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Moews 5076         3           Moews 5077         3           Moews 5078         3           Moews CB60A         8, 8, 9, 9           Moews CB70A         5, 8, 8, 9           Moews CB90         5, 8, 9           Moews CB90A         8, 9, 9           Moews CB90A         9           Moews CB100A         9           Monier 12         4           Morton M-6         7           Morton M-12A         7           Morton M-70         7           Morton M-303         7           Mountjoy M-64         4           Munson M-15         3, 3           Munson M-15         4, 6           Munson M-17         3, 3, 5           Munson M-19         4, 6, 6, 8, 8           Nichols NB-5C         3           Nichols NB-75A         3, 3           Null N-68         4, 4           Null N-83         4, 4           Null N-83         4, 4           Ohio C-92 (Nickel)         6           Ohio C-92 (Station)         4, 7, 8, 9	Pocklington P-64 7 Pocklington P-66 7 Pocklington P-76 7 Pocklington P-75 7 Pocklington P-75 7 Pocklington P-75 7 Pocklington P-75 7 Pocklington P-78 7 Pocklington P-78 7 Pocklington P-78 7 Pocklington P-78 7 Producers 326 7 Producers 326 3 Producers 505 3 3 Producers 505 3 3 Producers 501 4, 5, 6, 6, 7 Producers 940 4, 4, 5, 6, 6, 8 Producers 940 4, 4, 5, 6, 6, 8 Producers 1018 6, 7, 8, 9 Producers 1022A 7, 8, 9 Producers 1050A 7, 9  Robe 11 4 Robe 30 4 Schwenk S-24 4, 4 Schwenk S-25B 4 Schwenk S-25B 4 Schwenk S-27 5 Schwenk S-27 5 Schwenk S-27 5 Schwenk S-34 4, 4, 6 Sieben S-340 3, 3, 4, 4 Sieben S-340 3, 3, 4, 4 Sieben S-360 4, 4 Sieben S-360 4, 4 Sieben S-360 4, 4 Sieben S-440 3
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Moews 5076       3         Moews 5077       3         Moews 5078       3         Moews CB60A       8, 8, 9, 9         Moews CB70A       5, 8, 8, 9         Moews CB90       5, 8, 9, 9         Moews CB96A       8, 9, 9         Moews CB100A       9         Monier 12       4         Morton M-6       7         Morton M-10A       7         Morton M-303       7         Mountioy M-64       4         Munson M-15       3, 3         Munson M-15       4, 6, 6, 8         Nichols NB-43       3, 3         Nichols NB-5C       3         Nichols NB-43       3, 3         Nichols NB-75A       3, 3         Nill N-68       4, 4         Null N-83       4, 4, 6         Ohio C-92 (Nickel)       6         Ohio C-92 (Station)       4, 7, 8, 9         P.A.G. 173       6, 6, 7, 8, 8         P.A.G. 222       3, 3         P.A.G. 225       3, 3	Pocklington P-64 7 Pocklington P-66 7 Pocklington P-76 7 Pocklington P-75 7 Pocklington P-75 7 Pocklington P-75 7 Pocklington P-75 7 Pocklington P-78 7 Pocklington P-78 7 Pocklington P-78 7 Pocklington P-78 7 Producers 326 7 Producers 326 3 Producers 505 3 3 Producers 505 3 3 Producers 501 4, 5, 6, 6, 7 Producers 940 4, 4, 5, 6, 6, 8 Producers 940 4, 4, 5, 6, 6, 8 Producers 1018 6, 7, 8, 9 Producers 1022A 7, 8, 9 Producers 1050A 7, 9  Robe 11 4 Robe 30 4 Schwenk S-24 4, 4 Schwenk S-25B 4 Schwenk S-25B 4 Schwenk S-27 5 Schwenk S-27 5 Schwenk S-27 5 Schwenk S-34 4, 4, 6 Sieben S-340 3, 3, 4, 4 Sieben S-340 3, 3, 4, 4 Sieben S-360 4, 4 Sieben S-360 4, 4 Sieben S-360 4, 4 Sieben S-440 3
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Moews 5076       3         Moews 5077       3         Moews 5078       3         Moews CB60A       8, 8, 9, 9         Moews CB70A       5, 8, 8, 9         Moews CB90       5, 8, 9, 9         Moews CB96A       8, 9, 9         Moews CB100A       9         Monier 12       4         Morton M-6       7         Morton M-10A       7         Morton M-303       7         Mountioy M-64       4         Munson M-15       3, 3         Munson M-15       4, 6, 6, 8         Nichols NB-43       3, 3         Nichols NB-5C       3         Nichols NB-43       3, 3         Nichols NB-75A       3, 3         Nill N-68       4, 4         Null N-83       4, 4, 6         Ohio C-92 (Nickel)       6         Ohio C-92 (Station)       4, 7, 8, 9         P.A.G. 173       6, 6, 7, 8, 8         P.A.G. 222       3, 3         P.A.G. 225       3, 3	Pocklington P-64 7 Pocklington P-76 7 Pocklington P-76 7 Pocklington P-75 7 Pocklington P-75 7 Pocklington P-75 7 Pocklington P-75 7 Pocklington P-78 7 Pocklington P-78 7 Pocklington P-78 7 Pocklington P-78 7 Producers 13-1 4, 4, 5, 6, 6, 7, 8, 8 Producers 326 3, 3 Producers 505 3, 3 Producers 505 3, 3 Producers 940 4, 4, 5, 6, 6, 7 Producers 940 4, 4, 5, 6, 6, 8 Producers 940 4, 4, 5, 6, 6, 8 Producers 1018 6, 7, 8, 9, 9 Producers 1021 7 Producers 1022 7 Producers 1050 7 Producers 1050 7 Producers 1050 8 Producers 1050 8 Producers 1050 9 Produ
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Stiegelmeier S-600 Hi-Protein6	Troyer M-17T
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Stull's 101Y9	United-Hagie UH-52B3
Stull's 400(W)	U.S. 13 (Pfeifer)
Super-Crost 440	U.S. 13 (Station)
Super-Crost 500A5	O.D. 10 (Station)
Super-Crost 660	
Super-Crost 6705	Van Horn VH-55(W)9
Super-Crost 700A	Van Horn M-66Y9
Super-Crost 840	Van Horn VH-76
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